

A1000 Triband Parabolic Manpack



Manpack Satellite Terminal

A1000 Parabolic Manpack is a custom-built Triband SATCOM terminal with an eye in providing high reliability, superior innovation and choice for users. This terminal is highly suited for operations in harsh environmental conditions.

The terminal is suited for use in places where there is no fixed communications infrastructure and where access by vehicles is limited. The system is man-portable and can be deployed quickly.

The equipment includes BUC, LNB, Modem, Power Supply, M&C, GPS and battery. Given its innovative design, the terminal is compact and light weight without reducing any of its functionality.

Deployment of the Manpack terminal is easy, with minimal assembly of separate parts and the antenna alignment is also easily accomplished. Full deployment can be completed in less than 10 minutes which is a rapid deployment in hostile environment.

Key Features

- High performance parabolic antenna
- 10min full deployment
- Swappable RF payload
- Compact and Rugged
- Manual or Motorised with Auto Pointing Options
- Optimal size, weight and power

Technical Specifications

General Specifications

Configuration	Manpack terminal (Flyaway) Motorized / Manual
Antenna Size	1m
Standard Regulation	ITU

RF Specifications

Operating Band	Ka-Band	Ku-Band	X-Band
Frequency	29 to 31 GHz (Tx) 19.2 to 20.2 GHz (Rx)	13.75 to 14.5 GHz (Tx) 10.7 to 12.75 GHz (Rx)	7.9 to 8.4 GHz (Tx) 7.25 to 7.75 GHz (Rx)
Gain	47.6 @ 30 GHz (Tx) 44.5 @ 20.2 GHz (Rx)	41.1 @ 14.25 GHz (Tx) 40 @ 12.5 GHz (Rx)	36.4 @ 8.15 GHz (Tx) 35.6 @ 7.5 GHz (Rx)
Typical System G/T @20deg	20.1 dB/K min.	17.4 dB/K min.	14.1 dB/K min.
Feed and Polarisation	2-port Circular	2-port Linear	2-port Circular
Cross Pol / Axial Ratio	1.5 dB	35 dB	1 dB
EIRP Capability	57.2dBW min (12W)	52dBW min (16W)	48.5dBW min (20W)

Mechanical Specifications

Tracking mode (Motorised)	Beacon/DVB carrier
Travel Range Azimuth Elevation Polarization	±200° 0° ~ 90° ±90°
Auto acquisition time	≤ 3 min
Carry Case	2 Field Bag (option for single carry case)
Weight	20kg

Modem Case (Option)

Modem	iDirect 950MP
-------	---------------

Electrical Specifications

System Voltage / Frequency	24-48 VDC
Power Consumption	<300W

Environmental Specifications

Operational Temperature	-20°C to 55°C
Humidity	100%
Protection	IP65
Wind Loading Operational	< 11m/s with ballast
Wind Loading Survival	< 18m/s with ballast

